

In the Claims:

Please cancel claims 4 and 20 and amend claims 1 and 15 to read as follows:

1. (Currently Amended) An apparatus for mixing an additive into a flowing fluid to form a settable mixture, comprising:

a main fluid passageway having an inlet for receiving a supply of the flowing fluid and an outlet for dispensing the fluid, ~~said passageway having a longitudinal axis;~~

a control valve defining a portion of said main fluid passageway and configured for selectively controlling the flow of fluid in said passageway;

an additive injector disposed in said passageway between said inlet and said outlet, said injector having an emitter disposed in ~~close relationship with said axis~~ the approximate midpoint of said passageway and oriented toward said outlet;

a purge input for receiving at least one fluid and configured for purging said passageway;

a static mixer disposed in said passageway between said injector and said outlet for enhancing the uniform mixing of the additive and the fluid;

connection points between said inlet, said valve and said static mixer being configured for ~~smooth transition of fluid and~~ the prevention of at least one of the collection and premature setting of the mixture.

2. (Original) The apparatus of claim 1 wherein said injector is provided in an injector housing which defines a portion of said main passageway.

3. (Original) The apparatus of claim 2 wherein said injector housing is connected to said valve at a first end and to said static mixer at a second end, transitions between said valve, said injector housing and said static mixer being smoothed to prevent collection of fluid and premature setting.

4. (Cancelled)

5. (Original) The apparatus of claim 1 wherein said injector includes a check for preventing the flow of fluid back into said emitter.

6. (Original) The apparatus of claim 5 wherein said check is an O-ring.

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7. (Original) The apparatus of claim 1 wherein said injector is provided with a smooth shank and a head, said emitter being a bore disposed between said shank and said head.

8. (Original) The apparatus of claim 1 wherein said injector includes a check for preventing the flow of fluid back into said emitter, said check disposed to circumscribe said injector at said emitter.

9. (Original) The apparatus of claim 7 wherein said head is configured for promoting free flow of fluid thereover.

10. (Original) The apparatus of claim 7 wherein said head is tapered from a central peripheral edge to form a streamlined profile in said main passageway.

11. (Previously Presented) The apparatus of claim 7 wherein said head is provided with a noncircular driving recess and said injector is provided with a threaded tip for securing said injector into said apparatus.

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12. (Cancelled)

13. (Original) The apparatus of claim 12 wherein said purge input includes both an air purge connection and a water purge connection in fluid communication with said main passageway.

14. (Original) The apparatus of claim 1 wherein said main passageway is defined by said control valve, an injector housing receiving said injector, said static mixer and connections between said valve, said housing and said mixer, said connections between said valve and said housing and between said housing and said mixer being configured for smooth transition of fluid and the prevention of at least one of the collection and premature setting of the mixture.

15. (Currently Amended) An apparatus for mixing an additive into a flowing, settable slurry, comprising:

a main slurry passageway having an inlet for receiving a supply of the slurry and an outlet for dispensing the slurry, ~~said passageway having a longitudinal axis;~~

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a control valve defining a portion of said main slurry passageway and configured for selectively controlling the flow of slurry in said passageway;

an additive injector disposed in said passageway between said inlet and said outlet, said injector having an emitter disposed in ~~close relationship with said axis~~ the approximate midpoint of said passageway and oriented toward said outlet;

a purge input for receiving at least one fluid and configured for purging said passageway;

a static mixer disposed between said injector and said outlet for enhancing the uniform mixing of the additive and the slurry;

connection points between said inlet, said valve and said static mixer being configured for smooth transition of slurry and the prevention of collection of slurry and premature setting of slurry; and

said injector being configured ~~for minimizing the collection of said slurry to~~ provide a streamlined profile in said main slurry passageway.

16. (Original) The apparatus of claim 15 wherein said injector is provided with a smooth shank and a head, said emitter being a bore disposed between said shank and said head.

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17. (Original) The apparatus of claim 16 wherein said head is tapered from a central peripheral edge to form a streamlined profile in said main passageway.

18. (Original) The apparatus of claim 15 wherein said injector is positioned just upstream of said static mixer so that said additive is uniformly mixed with said slurry in said static mixer.

19. (Original) The apparatus of claim 15 wherein said static mixer has a reduced diameter nozzle which defines said outlet.

20. – 22. (Cancelled)